CUMULATIVE INDEX

Vol. 19 (1985), Issues 1-12

Analysis and Measurement
1985 Technology Trends: Analysis; January 1985 (19:1), p. 52.

Astronomy
Halley's is Coming! Halley's is Coming! (Jesse W. Knight); Oct. 1985 (19:10), p. 183.

At-A-Glance-Guides
Beam-Handling Equipment; May 1985 (19:5), p. 99.
Fiber Optic Test Equipment; Mar. 1985 (19:3), p. 64.
IR Detectors; July 1985 (19:7), p. 83.
IR and Thermal Sensing Instruments Part I; Nov. 1985 (19:11), p. 99; II; Dec. 1985 (19:12), p. 104.
Optical Fiber and Cable; Sep. 1985 (19:9), p. 91.

Behind the Bottom Line
Economy Shifts into Low Gear (Dr. Carl Nordstrom); Jan. 1985 (19:1), p. 20.

Chromaticity Standards
Call to the Colors: Progress Toward a Chromaticity Standard (Ken Miller); Feb. 1985 (19:2), p. 75.

Coatings
Designing a Trouble-Free Coating Facility (Robert Longo); Nov. 1985 (19:11), p. 103.

Computer Graphics
Graphics Boon to Spectrometry (Gregory K. Hearn); June 1985 (19:6), p. 83.
Revolution in Optical-Design Computing (David C. Pixley); Mar. 1985 (19:3), p. 59.
1985 Technology Trends: Computer Graphics; Jan. 1985 (19:1), p. 56.

Cryogenics
Demystifying Cryogenic Temperature Sensors (J. Kruse/P. Swinehart); Aug. 1985 (19:8), p. 61.

Designer's Handbook
Excimer, Designing the "Industrial Strength" (Richard L. Van Scoy); Part I: April 1985 (19:4), p. 67; Part II: May 1985 (19:5), p. 67; Part III: June 1985 (19:6), p. 53.
Fiber Optic Systems: Practical Design (Steven L. Storozum); Part I: Sept. 1985 (19:9), p. 61; Part II: Oct. 1985 (19:10), p. 77; Part III: Nov. 1985 (19:11), p. 57.
Imaging in a Computer Environment (Nicholas Bedworth); Mar. 1985 (19:3), p. 51.
Meddlesome Optics, Part I (D. Allan Roberts); July 1985 (19:7), p. 49; Part II (John S. Chudy); Aug. 1985 (19:8), p. 49.
Optical Waveguides: Fabrication and Drawing Standards (Gitimoy Kar); Dec. 1985 (19:12), p. 49.
Testing Fiber Optic Sources (James E. Hayes/G. Shinopoulos); Part I: Jan. 1985 (19:1), p. 45; Part II: Feb. 1985 (19:2), p. 53.

Detectors
Cryogenic Temperature Sensors, Demystifying (J. Kruse/P. Swinehart); Aug. 1985 (19:8), p. 61.
Fiber Optic Systems: Practical Design, Part II (Steven L. Storozum); Oct. 1985 (19:10), p. 77.
IR and Thermal Sensing Instruments, At-a-Glance Guide to, Part I: Nov. 1985 (19:11), p. 99; Part II: Dec. 1985 (19:12), p. 104.
Photodetectors: Getting up to Speed; (Kam Y. Lau); Sept. 1985 (19:9), p. 69.
1985 Technology Trends: Detectors; Jan. 1985, p. 58.

Editorials
(Engineering) Obituaries Were Premature; June 1985 (19:6), p. 14.
High-Tech Leadership, Eroding; April 1985 (19:4), p. 14.
Job for the Societies; May 1985 (19:5), p. 8.
Getting It All Together (Federal Science/Technology Dept.); Jan. 1985 (19:1), p. 6.
Keeping Secrets; Aug. 1985 (19:8), p. 14.
LAA, a Call to Support (Guest Editorial: Glenn Sherman); Nov. 1985 (19:11), p. 16.
Militarization of R&D; Mar. 1985 (19:3), p. 8.
Public Policies in High-Tech Places; Oct. 1985 (19:10), p. 14
Putting Our Fiscal House in Order; Sept. 1985 (19:9), p. 14.
Rx for Academic Labs; Nov. 1985 (19:11), p. 14.
Science in the Schools; Feb. 1985 (19:2), p. 6.
Serving Two Masters (patent rights); Dec. 1985 (19:12), p. 16.
Stampede to "Star Wars"; July 1985 (19:7), p. 14.

Fiber Optics/Communications
Automated Polishing, A Case for (Wase Ahmed/Ralph Doyle/James A. Nelson); April 1985 (19:4), p. 85.
Catching Up With LAN Components (Steven S. Lympany); Oct. 1985 (19:10), p. 82.
The Dallas Connection (Robert S. Clark); Oct. 1985 (19:10), p. 121.
Design Standards for Fiber Optic LANs (Kevin W. Murphy); Nov. 1985 (19:11), p. 79.
Fiber Optic Standards: An Update (Charles T. Troy); Feb. 1985 (19:2), p. 67.
Fiber Optic Systems: Practical Design (Steven L. Storozum); Part I: Sept. 1985 (19:9), p. 61; Part II: Oct. 1985 (19:10), p. 77; Part III: Nov. 1985 (19:11), p. 57.
Medical Fibers and Lasers: The "Star Wars" Team (W. Scott Andrus); Dec. 1985 (19:12), p. 71.
Military's Designer's Kit, New Tools for (Dan Rock); Aug. 1985 (19:8), p. 77.
Optical Waveguides: Fabrication and Drawing Standards (Gitimoy Kar); Dec. 1985 (19:12), p. 49.
A Tangle of Three Continents (Robert S. Clark); Jun. 1985 (19:6), p. 69.
1985 Technology Trends: Fiber Optics; Jan. 1985 (19:1), p. 62.
Test Equipment, At-a-Glance Guide to Fiber Optic; Mar. 1985 (19:3), p. 64.
Testing Fiber Optic Sources (James E. Hayes/G. Shinopoulos), Part I: Jan. 1985 (19:1), p. 45; Part II: Feb. 1985 (19:2), p. 53.
Thermometry, Optical Fiber: Quest for Precision (James R. Cooper); Nov. 1985 (19:11), p. 71.

From Our Washington Desk (David Lytle)
Barring Entry: the Societies Say No; Oct. 1985 (19:10), p. 50.
Deficit Reduction, New Science of; Dec. 1985 (19:12), p. 32.
DoD Wins Tug-of-War on Exports; Mar. 1985 (19:3), p. 30.
Exporters, Sweet Legislation for; Jun. 1985 (19:6), p. 32.
Federal R&D, Cashing in on; July 1985 (19:7), p. 32.
Japan-Bashing and the Real Japanese Challenge; Sep. 1985 (19:9), p. 34.
Laser Regs Become Reality; Nov. 1985 (19:11), p. 32.
Not-So-Secret Data, a Wide Net for; Feb. 1985 (19:2), p. 32.
Sensing Technology, Feds' Look at; Apr. 1985 (19:4), p. 40.
"Star Wars:" Where Do We Go From Here?; Aug. 1985 (19:8), p. 30.
Tax Balloons to Rise and Fall; Jan. 1985 (19:1), p. 24.
Trade War's Opening Salvos?; May 1985 (19:5), p. 36.

Holography
1985 Technology Trends: Holography; Jan. 1985 (19:1), p. 68.

Imaging and Display
Array Processors Go Commercial (Bruce R. Mackie); Mar. 1985 (19:3), p. 81.
CRTs: Race for Higher Resolution (Robert S. Clark); Apr. 1985 (19:4), p. 73.
Medical Imaging: Good Medicine for Hospitals' Ills (Roy Murphy); Dec. 1985 (19:12), p. 79.
Post-Objective Scanning: Image Acquisition Alternative (Rick Colonna); Apr. 1985, p. 101.

CUMULATIVE INDEX

Vol. 19 (1985), Issues 1-12

Analysis and Measurement
1985 Technology Trends: Analysis; January 1985 (19:1), p. 52.

Astronomy
Halley's is Coming! Halley's is Coming! (Jesse W. Knight); Oct. 1985 (19:10), p. 183.

At-A-Glance-Guides
Beam-Handling Equipment; May 1985 (19:5), p. 99.
Fiber Optic Test Equipment; Mar. 1985 (19:3), p. 64.
IR Detectors; July 1985 (19:7), p. 83.
IR and Thermal Sensing Instruments Part I; Nov. 1985 (19:11), p. 99; II; Dec. 1985 (19:12), p. 104.
Optical Fiber and Cable; Sep. 1985 (19:9), p. 91.

Behind the Bottom Line
Economy Shifts into Low Gear (Dr. Carl Nordstrom); Jan. 1985 (19:1), p. 20.

Chromaticity Standards
Call to the Colors: Progress Toward a Chromaticity Standard (Ken Miller); Feb. 1985 (19:2), p. 75.

Coatings
Designing a Trouble-Free Coating Facility (Robert Longo); Nov. 1985 (19:11), p. 103.

Computer Graphics
Graphics Boon to Spectrometry (Gregory K. Hearn); June 1985 (19:6), p. 83.
Revolution in Optical-Design Computing (David C. Pixley); Mar. 1985 (19:3), p. 59.
1985 Technology Trends: Computer Graphics; Jan. 1985 (19:1), p. 56.

Cryogenics
Demystifying Cryogenic Temperature Sensors (J. Kruse/P. Swinehart); Aug. 1985 (19:8), p. 61.

Designer's Handbook
Excimer, Designing the "Industrial Strength" (Richard L. Van Scoy); Part I: April 1985 (19:4), p. 67; Part II: May 1985 (19:5), p. 67; Part III: June 1985 (19:6), p. 53.
Fiber Optic Systems: Practical Design (Steven L. Storozum); Part I: Sept. 1985 (19:9), p. 61; Part II: Oct. 1985 (19:10), p. 77; Part III: Nov. 1985 (19:11), p. 57.
Imaging in a Computer Environment (Nicholas Bedworth); Mar. 1985 (19:3), p. 51.
Meddlesome Optics, Part I (D. Allan Roberts); July 1985 (19:7), p. 49; Part II (John S. Chudy); Aug. 1985 (19:8), p. 49.
Optical Waveguides: Fabrication and Drawing Standards (Gitimoy Kar); Dec. 1985 (19:12), p. 49.
Testing Fiber Optic Sources (James E. Hayes/G. Shinopoulos); Part I: Jan. 1985 (19:1), p. 45; Part II: Feb. 1985 (19:2), p. 53.

Detectors
Cryogenic Temperature Sensors, Demystifying (J. Kruse/P. Swinehart); Aug. 1985 (19:8), p. 61.
Fiber Optic Systems: Practical Design, Part II (Steven L. Storozum); Oct. 1985 (19:10), p. 77.
IR and Thermal Sensing Instruments, At-a-Glance Guide to, Part I: Nov. 1985 (19:11), p. 99; Part II: Dec. 1985 (19:12), p. 104.
Photodetectors: Getting up to Speed; (Kam Y. Lau); Sept. 1985 (19:9), p. 69.
1985 Technology Trends: Detectors; Jan. 1985, p. 58.

Editorials
(Engineering) Obituaries Were Premature; June 1985 (19:6), p. 14.
High-Tech Leadership, Eroding; April 1985 (19:4), p. 14.
Job for the Societies; May 1985 (19:5), p. 8.
Getting It All Together (Federal Science/Technology Dept.); Jan. 1985 (19:1), p. 6.
Keeping Secrets; Aug. 1985 (19:8), p. 14.
LAA, a Call to Support (Guest Editorial: Glenn Sherman); Nov. 1985 (19:11), p. 16.
Militarization of R&D; Mar. 1985 (19:3), p. 8.
Public Policies in High-Tech Places; Oct. 1985 (19:10), p. 14
Putting Our Fiscal House in Order; Sept. 1985 (19:9), p. 14.
Rx for Academic Labs; Nov. 1985 (19:11), p. 14.
Science in the Schools; Feb. 1985 (19:2), p. 6.
Serving Two Masters (patent rights); Dec. 1985 (19:12), p. 16.
Stampede to "Star Wars"; July 1985 (19:7), p. 14.

Fiber Optics/Communications
Automated Polishing, A Case for (Wase Ahmed/Ralph Doyle/James A. Nelson); April 1985 (19:4), p. 85.
Catching Up With LAN Components (Steven S. Lympany); Oct. 1985 (19:10), p. 82.
The Dallas Connection (Robert S. Clark); Oct. 1985 (19:10), p. 121.
Design Standards for Fiber Optic LANs (Kevin W. Murphy); Nov. 1985 (19:11), p. 79.
Fiber Optic Standards: An Update (Charles T. Troy); Feb. 1985 (19:2), p. 67.
Fiber Optic Systems: Practical Design (Steven L. Storozum); Part I: Sept. 1985 (19:9), p. 61; Part II: Oct. 1985 (19:10), p. 77; Part III: Nov. 1985 (19:11), p. 57.
Medical Fibers and Lasers: The "Star Wars" Team (W. Scott Andrus); Dec. 1985 (19:12), p. 71.
Military's Designer's Kit, New Tools for (Dan Rock); Aug. 1985 (19:8), p. 77.
Optical Waveguides: Fabrication and Drawing Standards (Gitimoy Kar); Dec. 1985 (19:12), p. 49.
A Tangle of Three Continents (Robert S. Clark); Jun. 1985 (19:6), p. 69.
1985 Technology Trends: Fiber Optics; Jan. 1985 (19:1), p. 62.
Test Equipment, At-a-Glance Guide to Fiber Optic; Mar. 1985 (19:3), p. 64.
Testing Fiber Optic Sources (James E. Hayes/G. Shinopoulos), Part I: Jan. 1985 (19:1), p. 45; Part II: Feb. 1985 (19:2), p. 53.
Thermometry, Optical Fiber: Quest for Precision (James R. Cooper); Nov. 1985 (19:11), p. 71.

From Our Washington Desk (David Lytle)
Barring Entry: the Societies Say No; Oct. 1985 (19:10), p. 50.
Deficit Reduction, New Science of; Dec. 1985 (19:12), p. 32.
DoD Wins Tug-of-War on Exports; Mar. 1985 (19:3), p. 30.
Exporters, Sweet Legislation for; Jun. 1985 (19:6), p. 32.
Federal R&D, Cashing in on; July 1985 (19:7), p. 32.
Japan-Bashing and the Real Japanese Challenge; Sep. 1985 (19:9), p. 34.
Laser Regs Become Reality; Nov. 1985 (19:11), p. 32.
Not-So-Secret Data, a Wide Net for; Feb. 1985 (19:2), p. 32.
Sensing Technology, Feds' Look at; Apr. 1985 (19:4), p. 40.
"Star Wars:" Where Do We Go From Here?; Aug. 1985 (19:8), p. 30.
Tax Balloons to Rise and Fall; Jan. 1985 (19:1), p. 24.
Trade War's Opening Salvos?; May 1985 (19:5), p. 36.

Holography
1985 Technology Trends: Holography; Jan. 1985 (19:1), p. 68.

Imaging and Display
Array Processors Go Commercial (Bruce R. Mackie); Mar. 1985 (19:3), p. 81.
CRTs: Race for Higher Resolution (Robert S. Clark); Apr. 1985 (19:4), p. 73.
Medical Imaging: Good Medicine for Hospitals' Ills (Roy Murphy); Dec. 1985 (19:12), p. 79.
Post-Objective Scanning: Image Acquisition Alternative (Rick Colonna); Apr. 1985, p. 101.

Processing, a New Style of Image (Paul Mengers); Feb. 1985 (19:2), p. 84.
Product Roundup; Sep. 1985 (19:9), p. 73.
Solid State Imagers. Make Way for (Max Collet); Sep. 1985 (19:9), p. 103.
1985 Technology Trends: Imaging; Jan. 1985 (19:1), p. 70.
VIM: Grabbing Images at Very Low Light Levels (Dr. Robert A. Wick); May 1985 (19:5), p. 133.

Infrared Technology
Imaging, Widening Reach of IR (Herbert Kaplan); July 1985 (19:7), p. 75.
IR and Thermal Sensing Instruments, At-a-Glance Guide to; Part I: Nov. 1985 (19:11), p. 99; Part II: Dec. 1985 (19:12), p. 104.
IR Fibers: Three Views — At the Frontier (Dr. Paul A. Tick & Dr. David A. Thompson); Jul. 1985 (19:7), p. 65; Paths Ahead for Fluoride Fibers (Marcel Poulain); Jul. 1985 (19:7), p. 68; Chalcogenide Fibers Make Their Debut (Paul White; Jul. 1985 (19:7), p. 70.
Military: New Tools for the Designer's Kit (Dan Rock); Aug. 1985 (19:8), p. 77.
Optics, SDI Lights A Fire Under IR (Charles T. Troy); Jul. 1985 (19:7), p. 93.
Teal Ruby: IR Detective in Space (Staff Report); Oct. 1985 (19:10), p. 137.

Integrated Optics
1985 Technology Trends: Integrated Optics; Jan 1985 (19:1), p. 74.

LEDs
Long-Wavelength LEDs — Challenge to Laser Diodes (Gregory H. Olsen); Sep. 1985 (19:9), p. 121.

Lasers
Damage Test, Planning a (Steven C. Seitel); Aug. 1985 (19:8), p. 84.
Excimers (see Designer's Handbook, Technology Trends)
Fibers and Lasers: the "Star Wars" Medical Team (W. Scott Andrus); Dec. 1985 (19:12), p. 71.
Hologon Laser Scanners — Not Just for Bar-Code Readers Anymore (C. Kramer/P. Pizzutelli); Nov. 1985 (19:11), p. 89.
Laser Machining: Already Indispensable (Pat Harris); Oct. 1985 (19:10), p. 113.
Lasers Take to the Factory Floor (Dana Elza); Mar. 1985 (19:3), p. 75.
Market Report; May 1985 (19:5), p. 123.
1985 Technology Trends: Lasers; Jan. 1985 (19:1), p. 76.

Machine Vision
Camera Designed Just for Vision (Gordon Dickson) Apr. 1985 (19:4), p. 107.
1985 Technology Trends: Machine Vision; Jan. 1985 (19:1), p. 81.

Materials and Chemicals
Bigger Optics, Better Test Share the Limelight (Staff Report); June 1985 (19:6), p. 75.

Microscopy
The Many-Faceted Medical Microscope (Mortimer Abramowitz); Dec. 1985 (19:12), p. 87.

Military Photonics (August)
Defense Budget: How Photonics Fits In (David Lytle); Aug. 1985 (19:8), p. 72.
(See also IR Technology, Lasers, Radiometry, Robotic Vision)

Optical Data Storage
New Signs of Life for Optical Storage (Rolland Hekker & Kurt W. Getreuer); June 1985 (19:6), p. 59.
Spectroscopic Search for Single-Photon Materials (W.E. Moerner); Feb. 1985 (19:2), p. 59.
1985 Technology Trends: Optical Disk Storage; Jan. 1985 (19:1), p. 83.

Optical Design/Manufacture
Concave Gratings, the Single-Beam Way to (Jay Zakrzewski); Dec. 1985 (19:12), p. 94.
Optical-Design Computing, Revolution in (David C. Pixley); Mar. 1985 (19:3), p. 59.
Optical Glasses: A Changing Realm (Kimiyoshi Itoh); Jul. 1985 (19:7), p. 55.
Optical Machining, Cutting Costs (Stephen Braun); Apr. 1985 (19:4), p. 113.

Optics in Space
Optics for EUV Astronomy (D. Windt/A. Decew Jr.); Sep. 1985 (19:9), p. 114.
Remote Sensing's Thorny Issues (James W. Hoffman); Jun. 1985 (19:6), p. 92.

Photoconductors
Thin-Film Photoconductors (H. Timan); Feb. 1985 (19:2), p. 89.

Photomultipliers
Getting the Most from Your PMT (R.A. Stubberfield); Feb. 1985 (19:2), p. 94.

Positioning Devices/Accessories
Microstepped Positioning: A Step in the Right Direction (Doug Nolte); Oct. 1985 (19:10), p. 141.

Product Roundups
Fiber Optic Components; May 1985 (19:5), p. 84.
Fiber Optic Products; Oct. 1985 (19:10), p. 95.
Imaging Products; Sept. 1985 (19:9), p. 73.
Optical Component Products; Oct. 1985 (19:10), p. 127.
Power Supplies; Oct. 1985 (19:10), p. 147.

Radiometry/Photometry
Radiometry's New Role in Military Research (Frederic M. Zweibaum); Aug. 1985 (19:8), p. 95.

Robotic Vision
Laser/Robot Combo, The (Dennis L. Werth); Apr. 1985 (19:4), p. 95.
Robot Dons a Uniform, The (G. Rappoport & D. Russo); Aug. 1985, p. 102.

Solar Energy
Solar Energy (David Adler & Stanford Ovshinsky); Feb. 1985 (19:2), p. 128.

Spectroscopy
Medical Diagnostics: A New Optical Frontier (R.R. Alfano & M. Alfano); Dec. 1985 (19:12), p. 55.
Spectroscopic Search for Single-Photon Materials (W.E. Moerner); Feb. 1985 (19:2), p. 59.

Standards
Standards for Fiber Optic LANs (Kevin Murphy); Nov. 1985 (19:11), p. 79.
Zeroing In on Measurement Needs (Richard G. Miller); May 1985 (19:5), p. 115.

Technology Trends
CRTs: Race For Higher Resolution (Robert S. Clark); Apr. 1985 (19:4), p. 73.
Demystifying Cryogenic Temperature Sensors (J. Kruse & P. Swinehart); Aug. 1985 (19:8), p. 61.
Excimer Laser: 10 Years of Fast Growth, The (Herbert Pummer); May 1985 (19:5), p. 73.
Laser Machining: Already Indispensable (Pat Harris); Oct. 1985 (19:10), p. 113.
Medical Diagnostics: A New Optical Frontier (R.R. Alfrano & M. Alfano); Dec. 1985 (19:12), p. 55.
Optical Data Storage, New Signs of Life (Rolland Hekker & Kurt W. Getreuer); June 1985 (19:6), p. 59.
Optical Fiber Thermometry: Quest for Precision (James R. Cooper); Nov. 1985 (19:11), p. 71.
Optical Glasses: A Changing Realm (Kimiyoshi Itoh); Jul. 1985 (19:7), p. 55.
Photodetectors: Getting up to Speed (Kam Y. Lau); Sep. 1985 (19:9), p. 69.
Revolution in Optical-Design Computing (David C. Pixley); Mar. 1985 (19:3), p. 59
Spectroscopic Search for Single-Photon Materials (W.E. Moerner); Feb. 1985 (19:2), p. 59.